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| APPLICATION NO.                                    | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------|------------------|
| 10/663,698   | 09/17/2003  | Chung-Hee Chang      | 50103-527 3980          |                  |
| 7590 11/02/2005<br>MCDERMOTT, WILL & EMERY         |             |                      | EXAMINER                |                  |
|  |             |                      | CHEN, BRET P            |                  |
| 600 13th Street, N.W.<br>Washington, DC 20005-3096 |             |                      | ART UNIT                | PAPER NUMBER     |
|  |             |                      | 1762                    |                  |
|  |             |                      | DATE MAILED: 11/02/2005 |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.   | Applicant(s)  |  |  |  |  |
|---|---|---|--|--|--|--|
|   | 10/663,698  | CHANG ET AL.  |  |  |  |  |
| Office Action Summary   | Examiner  | Art Unit  |  |  |  |  |
|   | B. Chen   | 1762  |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply   |   |   |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  |   |   |  |  |  |  |
| Status  |   |   |  |  |  |  |
| 1) Responsive to communication(s) filed on 17 Au  | <u>igust 2005</u> .   |   |  |  |  |  |
| 2a)⊠ This action is <b>FINAL</b> . 2b)□ This  | action is non-final.  |   |  |  |  |  |
| 3) Since this application is in condition for allowar   | ice except for formal matters, pro  | secution as to the merits is                        |  |  |  |  |
| closed in accordance with the practice under E  | x parte Quayle, 1935 C.D. 11, 45  | 3 O.G. 213.   |  |  |  |  |
| Disposition of Claims   |   |   |  |  |  |  |
| <ul> <li>4)  Claim(s) 1-26 is/are pending in the application.</li> <li>4a) Of the above claim(s) 12,16,18,20 and 22 is/are withdrawn from consideration.</li> <li>5)  Claim(s) 24 and 25 is/are allowed.</li> <li>6)  Claim(s) 1-11,13-15,17,19,21,23 and 26 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>  |   |   |  |  |  |  |
| Application Papers  |   |   |  |  |  |  |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order and the correction of the order and the correction of t | epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj | e 37 CFR 1.85(a).<br>ected to. See 37 CFR 1.121(d). |  |  |  |  |
| Priority under 35 U.S.C. § 119  |   |   |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |   |   |  |  |  |  |
| Attachment(s)   | 4) Interview Summary  |   |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  | Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:  | te<br>atent Application (PTO-152)                   |  |  |  |  |

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## **DETAILED ACTION**

Claims 1-26 are pending in this application. Amended claim 1 and newly added claim 26 are noted. Claims 12, 16, 18, 20, and 22 are withdrawn from consideration as being directed to a nonelected invention.

The amendment dated 8/17/05 has been entered and carefully considered. In view of the argument provided, the previous art rejection has been withdrawn.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-11, 13-15, 17, 19, 21, 23, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakata et al. (US 20020094458A1). Nakata discloses a process for producing a magnetic recording medium which exhibits excellent magnetic properties, especially, coercive force squareness S\* value and a more enhanced surface smoothness (Par 1) in which a magnetic layer is formed on a substrate and subjecting the film to a sputtering treatment in an oxygen-rich atmosphere (Par 29-30). Two separate sputtering chambers adjacent to each other can be utilized (Par 57) and it is under vacuum (Par 68). In addition, a protective layer can be utilized to prevent the deterioration of magnetic properties due to the oxidation (Par 10). However, the reference fails to specifically teach a third portion of the apparatus.

It is noted that the reference teaches of applying a protective layer. One skilled in the art would realize that a third portion of the apparatus could be utilized to increase deposition

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efficiency but at an increased apparatus cost. Hence, it would have been obvious to utilize a third portion of the apparatus with the expectation of increasing deposition efficiency.

The limitations of claims of 2-11, 13-15, 17, 19, 21, 23, and 26 have been addressed above.

## Allowable Subject Matter

Claims 24-25 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bc 10/31/05

BRET CHEN
PRIMARY EXAMINER